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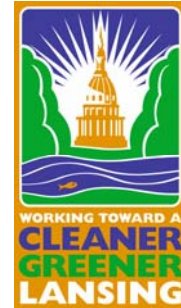
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CITY OF LANSING, MICHIGAN

COMBINED SEWER OVERFLOW (CSO) CONTROL PROGRAM

Progress Update - February 2008

Schedule

- Construction start: 1992
- End of construction: 2020

Sewer Separation

- Total 1991 combined sewer tributary area: 7,167 acres
- Combined sewer area separated or redirected from overflow since 1991: 3,826 acres
- Separation percent complete: 53% (3,826/7,167)
- Combined sewer area currently under construction: 258 acres
- Combined sewer area beginning construction in 2008: 597 acres
- Combined sewer area currently under design: 249 acres
- New sanitary sewer constructed with CSO program: 50 miles
- New water main constructed with CSO program: 27 miles
- New roadway constructed with CSO program: 56 miles

Benefits of CSO Control/Sewer Separation

- Clean rivers (public health protection, aquatic habitat improvement, recreational opportunities, and increased property values)
- Basement flooding/SSO mitigation
- Streetscape and Infrastructure enhancement (green space, tree preservation, road improvements, water main and other utility upgrades)
- Improved reliability / capacity of new Lansing Avenue Pump Station (LAPS)
- More efficient and reliable wastewater treatment plant operation
- Improvement sewage collection and transportation system
- Cost-effective and reliable sewer system maintenance
- Meets MDEQ/USEPA requirements

Combined Sewage Overflow Reduction

- Estimated annual overflow before project: 1.65 billion gallons
- Average annual overflow removed to date: 585 million gallons
- Estimated total overflow removed to date: 3 billion gallons
- Total number of CSO structures before 1992 start of CSO Control Program: 40
- Number of CSO regulator and overflow structures abandoned to date: 17 (40%): 007, 023, 025, 028, 029, 030, 031, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044
- Previous CSO 007 at Harton Street Basin remains as a locked emergency SSO overflow for the Red Cedar Area.

Facilities

- Total number of facilities proposed: 6 (4 pump stations, 2 sanitary equalization basins)
- Number of Facilities operational: 5 (4 pump stations, 1 sanitary equalization basin)
- Number of existing facilities decommissioned as a result of the new system: 4
 - Two (2) sanitary pump stations, including Lake Lansing Road and Shubel Street
 - Two (2) stormwater pump stations, including the old Clippert St. Stormwater Pump Station, and the Flood Control Pump Station, both near the Red Cedar River

Private Property Inflow Source Removal

- Removed rainwater from sanitary sewers to help minimize basement flooding
- Number of properties inspected: 11,261
- Number of private properties with inflow sources identified: 2,059 (18%)
- Percentage of these properties where sources have been removed to date: 83%
- Percentage of total properties in compliance: 97%
- Tollgate Drain Project removed 19 sump pumps previously connected to the sanitary sewer

Financing

- Number of years of low-interest SRF financing to date: 16(1992-07)
- Michigan Department of Environmental Quality (MDEQ) 2006 S-2 Grant: \$1 Million

Program Awards

- 2006 APWA Region and State Awards for Capitol Loop Project
- 1994 USEPA National CSO Control Award
- 1993 P.A.C.E. Crystal Award – Community Relations

